VOLUME XXIV.

CLIFTON, ARIZONA, FRIDAY, DECEMBER 1, 1922

AND MORENCI LEADER

UNIT AT NO. 6 IS NOW COMPLETE

The work done in No. 6 Concen-The work done in No. 6 Concen-trator at Morenci during the past on Sunday afternoon, December 3rd month consisted in installing a new Concentrator Unit capable of treating held by all Elk Lodges throughout an additional 700 tons of ore daily the United States on this date in under the conditions of the new fine commemoration of absent brothers grinding and two-stage flotation flow who have passed to the Great Besheet which was developed in the Experimental Mill at Morenci.

No additional coarse grinding equip-ment for reducing the ore from Run-next Sünday afternoon is as follows: of Mine size to six mesh size has been installed as machines already in place have more than sufficient MISS MARGARET NEWHOUSE in place have more than sufficient Opening Ceremonies Lodge quired.

necessary for taking care of the additional 700 tons started with the installation of grinding equipment for reducing the one from six mesh to a minus 48 mesh size, at which latter size the treatment of the ore by the Flotation process is started. For this purpose one of the two large Marcy Ball Mills has been removed from the Clifton Concentrator and set up in No. 6 Con-centrator. On account of its exceedingly heavy weight the removal, transportation and setting up of the proved to be the most ardous task of the reconstruction work.
Installed along side the mill is a

Dorr rake classifier the duty of which is to return to the mill all ore which has not been ground to the required degree of fineness during its pas-sage through the mill. The classifier also discharges to the flotation system over a wire overflow all ma-terial which is already ground fine enough. The above installation is for the purpose as stated, of reducing the ore to a size which will allow it all to pass through a screen having 48 openings to the linear

inch, known as 48 mesh. Before the ore receives final treat-ment it is found necessary to reduce its size to a minus 65 mesh size and another Ball Mill and Classifier in-stallation is required to accomplish this work. Ball Mills of sufficient capacity to accomplish this work were already in place but for the overflowing of a product finer than 65 mesh, a special form of classifier is necessary to work in conjunction with the fine grinding Ball Mills. This special classifier was constructed in the form of a shallow wooden tank 14 feet in diameter and 3 feet The tank is equipped with a central shaft which reaches almost to the bottom of the tank and which rakes at its lower end.

settled coarse material to the center appointment of F. H. Hayes, of P. by H. H. Friss, manager of the ciris removed through a plug discharge opening and pumped back to the was announced last night by the genmill for further grinding. The ore which is already ground fine enough poration in Bisbee. overflows ten perimeters of the tank, is collected in a launder which encircles the tank and is then sent to the final flotation system for treat-

The installation of a Dorr Rake Classifier for unwatering the feed to the Marcy Ball Mill before mentioned, was also necessary, better grinding results being secured when the feed to the Ball Mills contains a minimum of water. A large number of launders have been installed through which the ore will be transported from one machine to following one and a considerable amount of work was performed in clearing up old equipment to make room for the new

Since a large part of the flotation process equipment has been idle for the past eighteen months it was found necessary to do a great deal of renovating in this department. going over the tanks and furnishing them with new canvass blankets. Two direct connective Krogh Sand Pumns have been installed to handle flotation tailing material and a Wil-fley Pump to handle the plug dis-bas held write the property of the pro charge of the tank classifier is to be installed.

The 130 foot diameter Dorr thickening tank used for recovering talling water has also been repaired as it will be necessary to put this tank into commission again when the ton-No very heavy concrete work has been needed, the heaviest work of this kind being the foundation piers for the Marcy Ball supplies as yet undelivered.

SHERIFF ANNOUNCES DEPUTIES-

sary at this time,

BY ELKS LODGE **NEXT SUNDAY**

Clifton Lodge 117‡, Benevolent and Protective Order of Elks, will hold their beautiful and impressive Me-

at 2:30 p. m. yond. The services are public and a cordial invitation is extended to all. The program for the services,

Program Solo—"Face to Face"......Johnson MRS. PETER RILEY

Piano Solo—"Notturno" Mendelssohn MISS MARGARET NEWHOUSE Duet-'My Faith Looks up to Thee'
By Norris

MRS. GEORGE MARTIN MISS ANNA PRIEST Address D. W. Ling Violin Solo—"Elegie" Ernst MR. McHENRY MOSIER "Over the Stars There is Rest' MR. C. E. HULL

MRS. W. H. NEILL Closing CeremoniesLodge
BenedictionBy Chaplain
R. J. COLEMAN MRS. DOLORES B. SHIRK Accompanist

Auld Lang Syne Great Ruler of the Universe

All-seeing and benign; Look down upon and bless our work, And be all glory Thine. Oh, hear our prayers for our honored

While bearing in our minds The memories engraved on our hearts.
For Auld Lang Syne.

Notman Leaves Phelps Dodge; Hays to Be New Mine Head

DOUGLAS, Nov. 25.-Resignation of Arthur Notman as mine superincarries four radial arms equipped with tendent of Copper Queen branch of the Phelps Dedge corporation to these rakes being revolved, carry take effect on Jenuary 1, and the The El Paso Herald accompanied G. Beckett's office to succeed him, culation department, with three as zona at Silver City and proposed that

> Mr. Notman will leave Bisbee about January 15 for New York, majority of the population of Clifton where he will become associated with knew the stars of the Herald staff James Finlay, nationally known

> geologist and consulting engineer. The retiring superintendent has been in the employ of the Phelps Dodge corporation for 14 years, all of that time having been spent with the Copper Queen branch. He entered the service as geelogist and assisted in the first comprehensive geological survey of the Copper Queen properties in the Warren dis- sue of the Herald of November 23rd In 1913 he went to Globe, carried a splendid account of local where he directed a similar survey of the Old Dominion properties, returning to Bisbee a year later to assume charge of the efficiency depart-ment of the Copper Queen. This office Mr. Notman held until 1917. when he was appointed assistant to Gerald Sherman, then mine superintendent, and in 1918, when Mr. Sherman was appointed consulting engineer with headquarters at Douglas, Mr. Notman succeeded his chief as

has held until the preent time. .Mr. Hayes the successor of Mr. Notman, first entered the service of the Phelps Dodge corporation in 1969, and worked underground in the Morenei properties of the corporation. within a thousand miles of them. Later he was appointed chief gool cases for the Morenci properties, and of the Morenci properties, and held this position until 1915, when he resigned to accompany the 158th in fantry to the border under the comband of Col A M. Tutbill as region beauty. Through almost two years and the successful to the same mountain but they did it. foundation piers for the Marcy Ball mand of Col. A. M. Tuthill, as regi-Mill. The work will be completed by mental adjutant. Later, when Colonel of a depressed copper market. November 30th with the exception of a few details which are awaiting dier general, he had Mr. Hayes assigned to the 79th infantry brigade as brigade adjutant, with the rank of major. Major Hayes served with the 79th at Camp Kearney and ac-Sheriff-elect W. T. Witt this week companied the organization overseas made announcement of his appointues as deputy sheriffs, to take effect army general staff college at Langres, on January 1, to be George Martin, later being transferred to Chaumont of Clifton, Under Sheriff; Bud Smith and Dourges. Major Hayes served of Clifton, Jaffer; R. T. Scott, Deputy sheriff at Morenci. For the an infantry battalion of the 28th discount. sent these will constitute the vision, being transferred from this sheriff's force in this county. Under command to the fourth division of present conditions there will be no deputy sheriffs at Metcalf or Duncan, and the newly elected sheriff that he has effected a work-states that he has effec ing agreement between the various former duties at Morenci. In April That is what a little over 17 miles of constables in the precincts and the 1920, he came to Biebee, where he road cost and this illustrates the exsheriff's office which will not make has been connected with the office pensive task it is to build roads in of P. G. Beckett, general manager of

the Phelps Dodge corporation.

PROMISED TO THE STARGO OWNERS

to the stockholders of the Stargo Mines Inc., by the directors.

The present will take the shapof a new cyanide mill of seventy-five ton capacity, which has been under construction on the Stargo property near Morenci for the past six months, and which will make its initial trial run on or about December 15th.

Mr. Benj. Getzoff, of Bernards-ville, New Jersey, President of the Stargo Mines Inc., arrived, at Mo-renci last week and will remain un-til after the initial run. He will be joined here about the 15th inst. by Morris Kullman, treasurer of the company and Mr. Stern, vice-presi-

The cyanide mill was designed by the General Engineering Co., of Salt Lake City, Utah., of which J. M. Callow is President, and the actual ler on Pine Flat. Here the party of construction has been in charge of Mr. Bornsen, mechanical engineer.

mil completed earlier but the usual delay in the arrival of machinery has retarded its completion, however, Mr. Bornsen announced this week that he would be ready for the initial

a large number of Arizonans are stockholders in the company. Ray Ferguson, formerly of Nogales and Phoenix is local manager.

During construction of the underground development in the mines has been in progress with gratifying results. The average gratifying results. The average grade of the ore to be milled will run between \$12.00 and \$15.00 per

CONCLUDES VISIT

Miss Nora Butler, who has been on a visit to Dr. and Mrs. L. A .W. Burtch returned to her home in

Henry's best, and apparently as if

by magic, within a few minutes a

With unerring instinct Martin head-

ed for the sources of news while

Friss deployed his circulation skir-

mishers. For the next two days

they were in and out of Clifton and

all over the district. As a result of

their visit the Herald's circulation

list in the district has been increased

in a gratifying manner and the is-

activity in the district from which

If you want an example in optim

they know they are right and be-

With the copper mines partially

people have never admitted that they

were anything but very much alive

and they just kept on doing things ing.

Through almost two years

"And Clifton has the goods

surplus supply some day and need

when the world wants it" they told

built roads while the rest of the

world talked hard times and won-

dered when copper mining would

and cut 40 miles from the distance to

this part of Arlzona and how enthus-

iastic these people must be to spend

"come back."

Just to keep up heart, they

These Clifton people are the sort

ism, you can get it in Clifton,

we take the following:

lieve in themselves.

were in town.

Glifton Builds Good Roads;

NEW CONCENTRATOR MEMORIAL SERVICE CHRISTMASPRESENT HUNTING PARTY GETS 5 MOUNTAIN LIONS IN THREE DAYS

Cleve Miller, Government hunter and trapper on the Apache National Forest, accompanied by A. E. Daniels, superintendent of the Navajo Indian Reservation, and M. E. Musgrave, of Phoenix, are entitled to the blue ribbon as lion hunters, when on a three day's hunt in the Apache National Forest, approximately sixty miles north of Clifton, they killed five mountain lions, three full grown animals, and two cubs almost equal in size to the others.

The hunt was arranged by Mr. Musgrave co-operating with Cleve Miller. Governor Campbell was to have been a member of the party but was detained on account of official business. Messrs Musgrave and Daniels arrived in Clifton by auto on Wednesday of last week and proceeded over the Clifton-Sprnigerville Highway to the ranch of Cleve Milthree, accompanied by secured horses and pack animals and It had been expected to have the coming across to the Rose Peak road that he would be ready five carcases into the poration organized under the laws of the automobile Mr. Musgrave and the poration organized under the laws of the automobile Mr. Musgrave and Mr. Daniels drove to Clifton and left overland for Phoenix Wednseday morning where the lions were delivered.

Warden. The hunt was a part of the day's work for Cleve Miller and his pack of dogs, but five lions in three days we believe breaks the record even for this veteran hunter and trapper.

An unusual feature of the hunt was that the first day out the dogs picked up the trail of three lions and treed all three of them, dividing the work between them which is considered a most remrakable feat.

Mr. Miller is fast earning a na-tional reputation as a hunter of predatory animals in the national for-ests and his pack of hounds are becoming celebrated all over the south-

Mule Creek Road Finished

The Arizonans have this week com

pleted their section of the road and

New Mexico end of the line through

Mule Creek and Cliff completed by

here by way of Deming and Silver

leaves the Clifton-Duncan road nine

miles south of Clifton, and it was

heavy work every foot of the way,

else it could not have cost \$140,000 and more for 17 miles. But all road

work over here is heavy work, yet

these Clifton people think nothing

The Mule Creek road was just a

Springerville and the northern Ari-

zona country-and a road for people

Some Real Road Work

Talk about expensive road building. You don't know anything about

They circle the upper end of the

spot and run in the other direction.

Each piece of road climbs higher and

higher, the top section 100 feet above

the one in the bottom of the canyon.

To gain half a mile in distance, the

road is two and a half miles in

Beautiful Scenery

(Continued on Page 6.)

The road climbs out through some

to get out north from this region-

City and do it easily in a day.

Then El Pasoans can drive over

Arizona road for Silver City

Mexico promises to have the

the grading gang has moved

from Silver City to Arizona.

Christmas.

who tell the world they are on the man—and spend money when no money is coming in, just to prove that

shut down and people all around so they started the Springerville talking about hard times, the Clifton road.

as if the mines were running full it until you have gone over the com-

blast and there were no vacant stores pleted portion of the Clifton-Spring-

of a depressed copper market, the canyon and come back towards Clif-people of Clifton clung to the belief ton on the first level, then turn that people were going to use up the around north again at an available

hearts were right, they invested be first of the beautiful Arroyo Seco. tween \$30,000 and \$40,000 in a roadsummer camping home of million-

length.

erville road.

IS ORGANIZED FOR **BOY SCOUTS**

Dr. L. A. W. Burtch, chairman of the committee having in charge the drive for Greenlee county's quota of the funds necessary to include this county in a Boy Scout Council, consisting of Greenlee, Graham and Gila, this week was able to send a telegram to O. A. Alderson, at Globe, Scout Executive for this district, that the full amount of \$5,000.00 had been subscribed.

The boy Scout activity, which has been revived in Greenlee county, was the direct result of a recent visit of C. J. Carlson, field director of the Boy Scouts for the western states. During his visit, after consulting with interested parties, it was decided that Greenlee should join with Graham and Gila in the formation of a Council and to divide the expense of a Scout Executive among

The committee who assisted The committee who assisted in raising Greenlee's quota for this purpose, was composed of Dr. L. A. W. Burtch, chairman: P. Riley, W. R. Davis, J. O. Ambler, C. E. Hull and W. N. Moore, representing Clifton and Morenci.

At a future date a committee of seven will be named to represent Greenlee county in the Council of

Greenlee county in the Council of the three countles, and at that time Duncan and Metcalf will also have representation as the movement will include the entire county.

With the organization of lee, Graham and Glia counties into one Council, all of the counties in Arizona are now organized and Arizona holds first place of all the states in being one hundred per cent organized.

A Boy Scout troop is already in existence at Morenci, which will now probably be divided into two troops, and it is the expectation that there will be two troops in Clifton and one at Duncan.

O. A. Anderson, scout executive, will devote part of his time each month in Greenlee county directing the work of the local scout masters and instructing the boy scouts.

Southwestern Medical **Association To Meet** In El Paso Flouts Talk of Hard Times

such sums in a period of depression. charge of the program. No El Paso doctor will read a paper at this con-In July 1921, the people of New vention as it is the desire of the local doctors that these be in charge of the outside doctors. El Paso doctors will participate in the dis-Tuesday of last week aboard one of the western New Mexico line, New cussions of these papers. Mexico would guarantee a good road

Clinics equal to those held here during the Texas State Medical Association meeting will be held in the hospitals during the meeting and subjects of special interest to that doctors of the Southwest will discussed. The program committee is making an effort to get a physician or surgeon of national reputation to attend the meeting and deliver an address.

In addition to the serious part of the program, the entertainment committee is arranging an attractive account of Germany. Mos program of entertainment for the transactions with German visiting doctors and their wives. The executive committee is making an harbor, and although it is stated by effort to have every married doctor some sellers that 13% cents per bring his wife to the convention and pound f. o. b. New York, is the gena special committee of ladies is eral quotation, there is a well de-now arranging an elaborate program of teas, receptions and other done during the past week at 1370 entertainment for them during the per pound, New York. The fact that convention. Hotel reservations are Germany is still paying for its connow being made and the hotel com- per in American dollars is a matter mittee is sending a questionaire to of considerable comment outside the every doctor in the Southwest in trade. order to be sure to have rooms reserved for them.

HIGHWAY CHIEF CLERK HERE— Elmer Swanson, who assisted in moving the highway equipment which W. R. (Bill) Inghram, chief clerk had been used on the Mule Saturday coming over in connection Friday last. tween Greenlee county and Grant the State Highway Department at

GREENLEE COUNTY COPPER INDUSTRY TURNS ATTENTION TO DAM PROJEECTS

By CHARLES F. WILLIS

Editor Arizona Mining Journal Interest in the copper industry is centered around two things, the action of the council of the Salt River Valley Water Users' association relative to the construction of the Mormon Flats Dam and also the progress of the Colorado River Compact and its relation to the construction of the Diamond Creek Dam. Both of these are enormously large power projects on which the money for construction is available and the progress of the mining industry largely hinges upon the devlopment of cheaper power.

Copper Production Indicated The past week has seen some progress in the increasing or plans for increasing the copper production, although the scarcity of common labor in many camps has held back production. Morenci has planned to get under way as quickly as men call be obtained, but it is reported that considerable difficulty in this is be ing encountered in spite of the good living and working conditions of the Morenci camp.

A mill of 500-tons capacity is to be installed at an early date at the property of the Young Mines company, of Youngsberg, Arizona, and produc-tion is expected to start not later than next March, according to Geo. U. Young, president and general manager of the company. Considerable development work has completed at the property and a large amount of new machinery installed, as well as additional surface equipment and buildings.

To Install Electric Power Plant
The Chispas Mining company, owner of the Las Chispas mine ni the Arizpe district, Sonora, Mexico, has completed plans for the construction of a central electric power plant at Nacozari, which it is estimated will cost \$300,000, according to Antonio Pedrazini, general manager of the company. In connection with the construction of the power plant a high power transmission line will be built west to the Chispas camp, a distance of 40 miles.

A firmer tendency is reported in the copper market and some sellers are inclined to quote 14 cents, al-though 13% cents continues to be the prevailing level. However, some authorities are of the opinion that prices will be advanced slightly in

EL PASO, Texas. Nov. 22—Visiting doctors attending the Southwestern Medical Association meeting in El Paso, Dec. 7, 8 and 9, will have charge of the program. No El Paso

Domestic consumers have shown in creased interest in the market for the red metal. Orders have been reported larger than recently, and some fair inquiries were in the market from manufacturing interests to take care of their future requirements. Several inquiries covered morthly shipments up to the end of next March. The fact that manufacturers are showing indications of placing orders is looked upon by some authorities as evidence of increased in-dustrial activity. It is pointed out that the consumers of copper are not now speculating in metal, and place orders only for their actual recuirements as they can see them

vhead. There is still good buying for the account of Germany. Most of the ers are made on a basis of New York

of the State Highway Department, highway construction, to headquartwas a business visitor in Clifton last | ers at Phoenix, returned home on with the completion of the Mule also went to Phoenix with the equip-Creek Interstate Highway link be- ment, has accepted a position with

DOUGLAS PASCOE MISSING IN MOUNTAINS

Douglas Pascoe, son of Mr. and searching for his companion. the Mule Creek district, as the Era search Wednesday night. goes to press.

Just to show New Mexico that their splendid scenery reminding one at first of the beautiful Arroyo Seco, trip in that section last Wednesday A fresh posse left C intending to return Wednesday night. afternoon and Sheriff Bradberry with towards Mule Creek, to connect with aires near Los Angeles, then taking Silver City and Mogollon and Cliff— on the appearance of the Mountain ing Mr. Pascoe reported the matter, ing the search. Park country as it climbs to an alti-tude of 7000 feet at Granville Pass, time a posse has been searching the mountains in that vicinity and up his shirt sleeves at the time he be-

Mrs. C. F. Pascoe, a young man states that as late as 6:20 Wednesabout twenty two years of age, is day evening he received an answerreported lost in the mountains in after that hour could hear nothing the vicinity of the Juniper ranch in Bills stated that he continued the light he made his way back to the In comparty with Sidney Lills. Mule Creek road and was brought

A fresh posse left Clifton Friday

El Paso. The state of Arizona put another \$110,000 into the project. It miles north of Clifton, then much that is what a little over 17 miles of like Cloudcroft as it climbs through the project. That is what a little over 17 miles of like Cloudcroft as it climbs through the project. The state of Arizona put tude of 7000 feet at Granville Pass, time a posse has been searching the mountains in that vicinity and up to Friday noon no trace of the missing how had been found.

above the quaking aspens into the Sidney Bills made his way back to perished from the cold during the pines at a height of 8000 feet at the Mule Creek road Thursday moon- snow storm in that vicinity Wednesing after spending Wednesday night | day night and Thursday.